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S H'S AME

MONTH'S PROGRAMME



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gestle mist railed through the office. Rik noticed | Quick on the draw that his policepace around him where acting in a worder bases. Their our wealhollow and it stand into coold be douglibed as bottomious pits. He started to fort and shift unusually in his sent, and the others storted towards him. As they approached, their log lips drew back to reveal slathering gams folial amail, sharp needles where their teeth had once been truly this was that endOr just another day in the Your Commoulors office. We arrive at abother losse, and what we invoce. Some This new Circustation Similars been delived and April 1990 (and so has the competer game from Ocean), but that done? stee on giving you a firste of what is to come - thanks to Steve Jones of Sparkfiles and of course. Clive But this is eas the only menty moved in your FUN FILLID SINSATIONAL SOARAWAY YC. We also have our pullout programming section, a feature on Roleperview). A Life-to-back 2000 papers, and do life than 15 pages of sames projects. As well to all weer favority regulary, surgly we are the only complete Commodore magazine on

was going to publish which

I rest dish nemberity unto in the PC show on 27th

Its latest 2.99 C64 release -

September-let Octaber, drop by and Well have a chat... Deputy Editor: /Suband Shirle of Chemicals' Materials Adi-Cope Coursel: Technical Editors Day Kellow Warnie' Brokeland Afflet Alon 'Hierone's Group Editor: Star Micheles Creetory from the A Designer: Mark 'The Thing Advertisement Manager Ofigination Story Paul 'The Blob' Konomenh Printers Chase Webb

Sales Executives Music

drawings and programmandal coringum the first Friday of conversely and at her schedering property rights (Bessia bakes and Adoptitioners of her. New NA COUNTY OF STREET and other intelled rights and by vitte Argus Specialist Publication requires the prior written one Leighbarn Court Soud Family Terrange C 4 90005 11 C 4

CA 6 27G Printed by Chase

YOUR COMMODORS



The OS-118 features 3

Super Wonderboy is Dynamite SOME same tides have

ent shields - everything a

releases in September, Con-













More from the Amig By Burghan Lehma

AMIO WORKB

When thinking about whan to write in this column, it just crossed my period that I hasen's so far received the more autentible ghings the Army needs. After its amounting graphes and received opposition, they people would like in a column like the to hear more about how to get see soggramming them. (by the way, or laid in the first of the column, in the know about your interness and opinions!)

On the Army so wher he is not you ways of accessing the more powerful.

hink. The second way, and the much better one to start with, is by male see of the many facilities the operating system offers you. That is, by on the Brazy functions of the Analysis. The Bhardes give you access to martly all the advanced function the many control of the Analysis of the Start Sta

from the graphic library which includes some 97 functions. These allow yo o draw lines, fill in spaces, animate objects and much more. The graphics library also includes some test printing restines. On the Armin test is created just library action probable. The advantage

or antitudes to you in form of Basic commands. Anogo Basic from Morrosoft quite good in this may, once you age to karre it. The seek yaalling thing soot it is the cellute. In my book the Anajor Sanic editor make tops in the sit of the verst propriess over written.

But the word is, that Morrosoft is developing a new version of their Basic thin will be basided with Workboard. I.d., expected by part once the market entries ent year.

Anything has to be an improvement on the appuling present editor, I.

se edice and not concentrate all their time on diviloging fancy new Build commands and then do the edice again on the quital theories. This is one of Amiga Busic also allows you to use the Amiga Eherries. This is one of Strongest features, seen though it would allow you to consider thoughing to C or assembler if you want to use the Eherries entensively and do serious remannation.

AMIGA WORKBENCH

he world of iga ard-Henry nann

GA BENCH

Co supposed to the the transpar of the Araiga. Men of the example on the Araiga Men of the Carelland Dr. Arbitach Black, are Turker to the Araiga Men of the Carelland Dr. Arbitach Black, are Turker to the Carelland Dr. Arbitach Black are apposed to the Araiga Men of the Men of the Araiga Men of the

unamous our part is not teen, I can not a the trises of my labour far sometimes with a cited of addition to assembler programmers. These if you her on moreother that can use the design feeded files, den't use thereif it was a second to be a second to the second to the second to the second are model from (is). Some another to assemble all the feeder files which are model from (is). Some after five to make all you or now vanished are model from (is). Some after five to make all you or now vanished are model from (is). Some after five the model of the cited for cet it handed it is complete feeded from containing the cet now the latter of the laboury addute and other yettern equally your usual needs at the beginning of the course (file various). This is invalied to the

common, upo un offeraji offattis sini (other systems equals) yaur auseure nocis, the be beginning of the courte file is yaward. This is instituly a bit must will, but note you have done this, you can use most of it own and own gainst by just merging allows side any over source file you can wrising — that it. If your assembler has go to a mosping facility, which is serrely has, if it allows as it so toe feeded file... This additional work pays of hashboosehy in harring and seasor files escended in next to no time.

At the control of the

for the literation through and so on.

Hyora was it show a look in on indended life, simply sax the "type" commands
from CLI or load the lackabel file into PL, the CLI ordine, or any weed procured.

Aming Blank also requires lackabel file if you want to use therein and

devices from it. Undensemantly, Analya Blank can't do with either the idended

devices from it. Undensemantly, Analya Blank can't do with either the idended

files and the blanked files it room begreat lackabel files, dan't beaught. There

is a programs on the filters and its which converts any located file into a beaugh

file which can be used by Analya Blank.

Pendy, pregnamming the Antiga hardward sixedy is, as I said, order than you might think. What you do here simply is you raise certain fixed invasions. These service expires of the special chips of the Antiga. This is very sizellar to pregnamming, let's say, the 37D sound chip on the Coresandor 46.

Most of the information you'll need for that you'll find in the design filter-lever Affricance A

Most of the information postll need for that you'll find in the Angas Randsow Reference Meanual published by Addison Wards. For people who are into machine code progressing, this in the entire to eigent of the four manifer reference manada.

Even better, especially if you want loss of example progresses in assembler, it the Angas System Progressioner's Goalde published by Adassac. And then,

I may not jove, these will very seen be a book on this subject on the market, written by years trady and published by Dole/ from the England.

If you ever want to attempt to proquest the Antiqu hardware freedly, you have to be sween that the Antiqu is a mutitation greathles. Therefore, you have to be sween that the Antiqu is a mutitation greathles. Therefore, you have not been able to be a subject to the antique of the Antique to the Antique of the Ant

function.

Always remember to exists mobitasking on again with the Avron's function and, when you are done, to five the memory you have allocated for your



FUTURE SH

EEATHDE .

The Daily Express Lifestyles 2000, and is thrust forward in time to sample a taste of the future.

bhough Lifestries 2000 was hoped in just about every from of media would be many companies justing to grab the punters' amention, but

TV next to BNB had better think a little for the next them - and a next

Once our polistes had been christened with the beer of the year 2000, we

SKY, but then it had to be because of BSBs failure to release a satellite clob

CK YOUR COMMODORE



#FEATU

Below If that's model, I would mind sticking



don't really see how a pair of cycling shorts and a nather films; to stop you being fried to a criep. Oh well, the gifts were party. They cause at been dying in the boller usin that they had so we set of it, the whole exhibition was baking hor, and Franc and trystil well

part of it, the whole cubit item was baking bot, and Franc and myself velocened every chance we could get to have a rest. Feetwately we had pleasy of chances, and therefore experienced a wonderful time. Maybe Lifewyles 2000 warn't quite the right side for such as subbidies at lawood than I liked to have one a linfor every furnishing continuous in another sec-

(photographers nowadays, pah).

Also missing was an indepth look at the cuential environmental lorfar more important for the year 2000 than satellite television – althou

INTERVIEW .

GETTING OVER PHOBIA

much grills Tony Crowther, but bases h slowly on gas mark 4 Well marinated of course.

a Monday ("Rh.Jata I was burneled in the back of the new Cookernobile with the sole intention of interviewing a certain Toen Crowther, But to fry surprise after I was let out of the sack of course - Sheffeld had for ware a suffer dissipation and To my Tongue decigated to his profession would be an understatement His 150 revolves against programming and now that he seems to be flavour of the invests at Mitroriofilitie figure is looking very bright indeed. However, his past heavy country became failure. If one was to list all of his multiplied garnes, that would take up pages offere, but everyone would recoming at least pec of them - Monty Mole tox instance. Having recents finished all the conversions of Phobia (92% in this losse and a YC SURESHOT), he is to withork on an enormous project which is to last eight to sine mostly. Die new game is currently currying the working tide of Federation War, abboard Tony meeting that this is very likely to charge It is unlike any other Chrysher game mittle cornect that it has a Role Planing theme . abbanets mettin (beignoold of Bardy Tale, Alternative Reality etc. - and it will be fairly

INTERVIEW ... Based very locally on the plot of Star Wars, you play the part of an evil

PERSONALITY

PROFILE





YOUR COMMODORE



NTERVIEW .

Desert Islands Disks

The second secon

"I does plot the with List the wife, It is one of the five games all edges,"

Experied Miles 1 - 2

"Ill detail those we one gate, because I've gut then both on one disk. I never two stores of day are called External Miles or not, but I think they've better that Booklevisch, afform kinter closes."

"Ofter, so it's my own game. I still play it often, it runninds me of a the hours I spent designing the screens. A lot of thought went into the lancour."

"A silly little gars

"A sick game and very enjoyable. It's a shame though, my disk has go corrupt." Ann Infocum Advantage

*** And so we deputing the Coordinate that equity a lot of thought.*

And so we deputing the Coordinate toosehold see inside my favoration of Sheffield. The Path. Crossopplishing sour also go to also Coordinate out there share of the transfer for the Engineering Sheffield. The Path. Crossopplishing to the Coordinate Sheffield. Sheff sheet Crossible.

■ PC CORNER







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peckage and watch you disappear is one get much better help if you pur go to a level computer dealer. OK all of those wouderful deals that you more Ekrit to be tailing to offer you

> for fixed to your PCT. Addons to Southempoon produce one that is a Addons too to enshrested on (0001) 625202.
>
> Any PC standard woolen and few cord can be plugged into the expton as recessary.

her as enecurary.

New for the video cards, replacing the CGA card involves should
coloural video by mitrifung on mitch 4 as detailed to the mor numeral.

15. Tour new video card will need to be placed in the expansion but all
Coffermatory you only have there models as 10 year decision.

Opportunities you cally have those annihile so it's year decision who are only one choose in a surround surround to the quality of all wholey for me and year decision with wholey for me and the chosen of the chos



that you would take to see answered, or simply ideas for articles the that to us. Without your help we con't make this column work.



NO SERVICE SER

100,000

DNED

VOLID COMMODORE

Seventeen

Intergalactic layabout Alex Bardy explores the enormous world of Role Playing Games.



The very idea of taking on the role of

BOARD



set, and he listed together two mythical worlds of such contarts (Thi mains Tales and The Challes Mythols supervively), her Call of Challes RPG was originally hand on Lovernt's Mythobot the game system has since been cognided to cover nearly all hits. Suppost materials, more again, is greerous. Recommended.

takes, but the game system has since been expanded to cover nearly all his works. Support material, once again, is generous. Recommended.

TWELIGHT: 2009 and 2200AD – two RPGs (locostly) on account our own Mother Earth, the former is one of the very few poss-balecasts RPGs carriedly.

available, while the latter is set in - surjects, surprise - the year 2006 - as then when several powers (residuely French, American, and Chinoch have achieved space travels, and colonisate platents abound the paleay. Both these genes are set in supported, and as an artest fast of 2004AD, the latter consihighly recommended. MARYELS-EUPREDEGUS and DC-HERGES - both of those sowers thereon

by Marrid and DC Contax respectively allow prespective players the chito- of en fancy dress, mask, and all-important lights, and to go arcead loss
to den fancy dress, mask, and all-important lights, and to go arcead loss
tall-beidings and liverlings blocks with single blows, etc. Great fan Se
and support material set'l thin on the ground for either game...

of it is worth where magic and sincere become one and the same. The parasis been accounted for quiet once time, and has something of a toler Schowing personal, it issues to be becoming understophy peoplate their post of the product of the produ

NATILETECH—the "RPO" starred life as a wargame and, after almost 5 years, but seemly becomes temely people with the masters. The game resolute resolution of the property of t

GURTS - GURTS (Generic Culvirual Rain-Paying System) is an attempt on each new core generic originate; the game system has been designed in such a name that you can see if for ell settings, be they lintage, 37 centrals, applicage, or whatever, 185, an experience flushy process very carried and the second of 1870, and over particular authors - there are books specifically covered policy forwards WITCS WORLD thingy and Alan Dean Founcit books for changing.

kind of prostochasterical Dish century where a gay called Thomas Edison has discovered space takest, and report like H. Of Weils and Julies Verme mean certainty new cruzs. Versus, Mans, and the Moore are also inhabited by Illustrientes, marrians, and electates respectively, Oh, and also called the many, thank the control of the contro

HOUND OF THE SHADOW

bose familiar with the Call of Othelba' role-playing game will recognisthe theme behind Electronic Arts latest computerised role-playing

London in the rip-reading 1926 - and we can be assured that these than a said of herest involved.
The first task to be performed, as in the RPG, is to create a ch

You can be made or founds—this is your first chalce—American so Briefl and you can chosen from numerous perforation. Not coly ace the characteristics involved (you do not get to set them, only sentences on who need of person, you need the skill system is necessaria. There are many skills which you possess, but they are all set at an average the contraction of the properties of the proper







The gain-play time is stated 16.0 is 2000 adversally, introducing proposed not distributed throughout. The difference between this and, say an Indonesia verticare, in that The Hennel of the Shadow is complexity instructive. Beginning in the proceedings to hear proceedings to the proce

The passion is and established, both in a value, complex, soot that it so it, and appropriate groups of a it is but a factor. The power is very steep to see that the computer is every steep to see the computer is ever to compute it is ever to compute the absorbance (which doubties. The House of the Shadow enforcity, this passe goes not right on objects to be beld a complex does passion to the compute of the passion of the compute of t

Every action undertaken says away time, which is important to the plot. The timeline is a very important feature. This is to be writagenedly adhered to otherwise the Hound, for it is after you or your friend, will rip you so should in typical H. P. Laveccold tradition.

The available was says require another in a decapea strike in a creatile.

The pupilsis are very monely, painted in a dear-tene tight in a crumble colour of being brown—reach like flower older phromphet broad in everybedy's actic. The game root changes every time it is played with another character, many wastle flowers solled which asked the game seen and there are many, many wastle flowers solled which asked the game seen.

Although The Housel of the Shadow is not in the Barth Tile month, it is a very way as much as RFU, of not more to. The interestion level.

A SHEEP IN WOLF'S CLOTHING

Win a sword, care of those wonderful peopl at Audiogenic, in our Lone Wolf competition Maim your neighbour

Slice a friend...

On too can be as barbaric a
Hernel Hompstead, as means
lar as Rik Henderson, with
Rike Playing swood made from
too doo't want yew hortin

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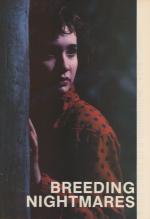
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FEATURE II

live Barker's new fil has a dark fantasy theme. Dave Hughe and Alex Blair talk t him on a very frantivery elaborate, Pinc wood set.

Photography by Murra

glowste, solio and guarat manorithmenters aroung harms for it is virtues a store the firm HELLE-MARKE for which has no instant and society. A ballast spiles, complex coding of show, may not be supported to the store of the company. Marked Whyse and absent vertexes in shown with the Tighten, enablishing in control adopts, the Combbins, and have the company. Marked Whyse and absent vertexes in A cough has acrossly to the marrier, and from any plant for a field. Now Citro is switzing with a should also a store of the store plants for a field. Now Citro is switzing with a should be store plants for a field. Now Citro is switzing with a should be store plants for a field. The citro is sufficiently that set of the store plants (NORTHERED, THELE-MARKET was a lade the field that the store of the store of the store of the store of confidence of the intervene design of the store of the store of confidence of the intervene design of the store of the store of confidence of the intervene design of the store of the store of the Confidence of the intervene design of the store of the

the stary of Boote, as Issueers but risted-up mas convinced by his problem productive. Device, than it is a multiple senterier. Force give the subsentite Boote discovers a lost city wherein reside all the reported between of the earlier and, bringe sententianally lead his passant to the size, fightles to save it fire those who would destroy that which they food undermand. It is retired to force the bring of the sent WHE FEA', VIDEO/ROMOM and DAD BINGOR director. David Coronthery, and HILLS STREET RUITS size Casale his proportion of the sentence of the proportion of the sentence of the sentence of the sentence of the proportion of the sentence of the sentence of the sentence of the proportion of the sentence of the sentence of the sentence of the sentence of the proportion of the sentence of the proportion of the sentence of the sentence of the sentence of the sentence of the proportion of the sentence of the sent

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NIGHTBREED - THE GAM

Clive Barker's new which Ocean is a warld clie.

(film Nighthered to be copied, due to the fact that As already explained in client by plained by film in Public Relations manager the main feature (what do fact as fact as a great of the in 1917), the plat of the film 55 offerance. This can only be debut as a gent of the in 1917, the plat of the film 8.

Excess signers on Occas was asked to make biscories are used you desired. The complete of the second of the contract of the co

do the said countries, and the ned k gifts piecy.

Itse Now that the movie ha
nod been concludated for a
een Pobranty release, the gam
are
has followed soit. It will b
has available on the Amiga an
my attl be every hit as horriff

FEATURE .

"Ocean software's Gary Bracey has already been roped in to play one of them (the Nightbreed)..."



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A good printer is essential if you want to get the most out of applications

Graphics table

SOFTWARE









YOUR COMMODORE

Thirty On



ust how does a joystick work? How do you use i

ay gains there is just no substatus. "
We all know what he world! We all know what he world! We all know what he wisels it a fire butter or bushion, a blace, at a fire butter or bushion, a blace, at least the population of the substantial bushion of the substantial bushion of the substantial bushion of the being with the substantial bushion was undercoverables we make no delike to the being with the substantial bushion of the bushion and delike when you much a side. The cheaper sees use at a posterior star made one of this lets.

proposal and manufacture was proposal and the side. The chapper more use a fee pointed star made out of this bend steel. Moving the static assess a pole of the star to come into contact whe paid on the printed circuit host traited the joyntab. The trouble will these in that after prolonged use the size begins to show signs of faring and commandly a polar of the star we have been a feet and the prolonged use the size begins to show signs of faring with the size begins to show signs of faring with the size of the size the size

If we take a look at the echemate in chapters I of our typical joyetch, we can use how the components are electrically connected to make up such a device.

As you can use there are seven connections to the joyetch plag. These connections to the joyetch plag. These

consections to the joyetick plag. Then are up, down, right, left, fire, grosses and 55 volts do. Each position ewisch will be actiused by moving the sick in one ofear directions. You can also trigge

four directions. You can also trigger two switches by marring the stok diagonally, for example in a nonzhward disection.

Now the computer program will be trying to determine the status of those latter smitches and benefit the residior

trying in determine the status of librolighty solidables and hence the position into which you have pushed the stick, but you can't just plug the joystick in any old where. It needs so be plugged into special interfacing circulary via a joystick port.

Most computers have a joystick

system is nection that plage into the computar's age consecure which has the precumer's data and address we manning to it. This interface will do the decoding necessary to convert the movemen of the psychic into the data signals that the program will need in certific to work own which position the joyatic into the certification of the program will need in position to the program will need in position to the program will need in position to the computary than it will have such an interface already inside here such an interface already inside

YOUR COMMODORE

The earbusiastic games player would have an extremely tengh time indeed if it wasn't for the good old joystick. Okay sure there are

also family of company of have two controller poets,

This is the final part of our series for turning your C128 into an expert system

By Paul Schofield

army is the relation rules army, which dollars the operations to be performed and reduce the recovery, references for extract spainform who from the other data structure. Delegages oning the user, the eventure first dealing and help tents defined In the knowledge have giving background information on the figure of the at a time and the over indicates when the a next page is to be class aved. After this a standard decle test on anyone an experience in Contrast. For each condition a in personable to account these of these being

because of a don't know propose. It is asportant to note that a don't know sloes not rule out a target little simedulinated during the first part, as there s maybe a solution that does not depend unithe result of the particular condition. After each condition is exceed a further check is performed to see if time other conditions are motiod by this result and the appropriate results for these conditions set. This means that as the inference engine proceeds through the you of heart and condition is finds it along to has the assurer to be increasingly large number of conditions and so does not have to ask the user. Hand (b) (Doc) Know season have not been sizes a solution role

or gentless searching for further solutions. A further option - (Wilty, is also Why?

Some target will be satisfied. At this case anadyces as included which displays the mouth's solution and pleasable user the cortice to such from the montant

No (More) Solutions

Applications

a minor shart contag.

One very obvious application for the home computer user is a program design aid, indeed I originally developed the favoragener of the season superam the error in development will be have Master programme Good (018) have players who, have used the program will no doubt have noticed a slight flaw in the pogging strangy with centain types of hand. This is a revolt of posing the question what gard materiess the storing possibilities". A more correct property would have been talled building the light property could for relay?" I'm most owers the amount is the same and made the shouldhous well

coded and applied noticed it would have received a major regrite to correct Processing the strategy in RAL format is very much simple and confidence to be a problem that both targets and confidence have to be consistent in stress of sent strings. A tenical example is a solution, that is built up as a small of overal roles being true. This sends to be a problem of races general purpose capert system cheds, as lebet in really required in fer a satisfied rule

to trigger an action, which constitutes to the process solution. This is, however, a disalvantage, if a single unique solution is sought. Such applications can however, be handled by planning for multiple solutions and noting each target splitting found and almost continuing to both for further activities. One final application area that should be represent it education. The question and answer technique is quite a good was of Thistories to children has be accessed various types of problem.

Figure of Electricity, a sample knowledge have for identifying mathematical Annual Third and an extended the second seco continue solved and also above how residuals solutions are he seefal. In this our littless for additional solutions will demonstrate that a average is also

YOUR COMMODORE

Thirty Five

C128 PHOGHAMMING

all y''' by each condition. There comin are then seemd in produce an arry pl., such that p(x) is the samber of the most own condition and p(x) is the loss used condition. The following changes are then seeded in the mal program:

1340 p=1; y=0 1350 do while p =1cm and y=0 1355 ccy(50p) 1550 p=0+1

The only slight complicate implied conditions should also that the second conductors or

that the revised evaluation strategy may prove test efficient than the original cost, and that's not intelligent.

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	T THE SHAPE WIS & MIDDE
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YOUR COMMODORE

C128 PROGRAMMING



Plus/4 Utilities

We present three basis but very useful utilities for the Plus/4 and C16

By D. Glass

How It Works

PLUS

.

Basic needs to be moved to \$2000 before loading the Basic lea Type the following energy as shown, cherk before remain

POKE 44,32 POKE43,1 POKE8192,8 NEW (RETURN

This will natic BANC, giving space for the M/C. Load and run the Buleader.

If all is well then the program will say so. If it is, then enter the MONITO and type the following-

EQREAD*,D,1001,1170

Where Delt for disk or 1

Reset the computer or if you have more than one of my routines then type F 1000 1FFF 00 (RETURN) to clear the work space then type X to setum to Basic, type NEW (RETURN) and you are ready to load the next BASIC leader.

1551 Head Cleaner

This is an countain program for the 1551 user.

When the drive head is too dary to read a dask, deaning usually reckerping a deaning dask spinning for about thirty seconds. This program

How It Works

The program in in M/C to keep loading time to a minimum. We start at address \$1000 so that the program can be run from Basic, after sering upthe screen display by changing colours and using the LAVES resetting (\$5300) to draw two lines across the top of the screen and by using the AVELT PRITE side contains at \$1000 to write LESTA. The serions at \$300-\$51000.

will set the top of a source window part ander the two lives, the programs now waste for the set to loans a cleaning chief and confirm that the using the keyrem nortice at \$1505.
When mostly the program will set up a count of seven, and seed an INSTALEZE command to the ciril drive, menting the drive and therefore spinning the side, where mostly has accounted the program will discernant the co-curves counter, checking that "O" has not been recalled, and send another Am et al. (1) in resident This takes about these seconds. A sub-centile

Instruction

Instructions

Run the prospute from Rusia. The prospute will passes for you to insert a cleaning disk. Pross "y" then you are ready and the count down will begin.

If for any cases you need to stop the cleaning then press "n" and the program

Getting II

Type the following exactly as shown, check before persong ceture.

POKE 44,32FOKE43,4-POKE8192NEW (RETURN)

This will raise Basic, giving space for the M/C. Load and run the B loader.
If all is well then the program will say so. If it is, then came the MONIT and type the following:

PLUS/4 PROGRAM

CLI DOON 900, 1223 3, DOO, 900, POO, 7, POO DOOR 100, DO

100 SAC SECTION STATE OF THE SECTION STATE OF THE SECTION SECT

DATE TO SERVICE STATE OF THE S

PLUS/4 PROGRAM

STIME MEAD CLEANING

Where Drift fee disk on 1 See tap.

The new groupses 1558 MEAG CLEAN will be saised.

Hence the computer or it yes have more than one of my restines the type F 1000 1FFF 00 (RETURN) to clear the work space then type X o

Do you have more than one Disk Drive?

Many people do not like opening up their drives and cotting jumpers of in order to access the second date.

A short make MC manners will do this for you be now provided with

UK 1301.

Instruction

Rus the progress from Basic. The program will passe and tell you to veil all of the drives that you do NOT require changing.

Switch off and confirm this by proving either "8" or "9" as required.

- ...

Basic needs to be moved to \$2000 before loading the Basic leader.

POKE 44,32:POKE43,1:POKE3192,@NEW (RETU

loader.

If all is well then the program will say so. If it is, then easer the MONIT and type the following:

PISSI DEVICE NUM',D,1001,117

-Stacks File

By Steven Burgess

FEST process of adding items to





Renumbering Options

First, we waken the management after the RENUMBER occurrent dises 1960.

Exten

textfile is easier than you may think

nding

In the case of no end parameter, we exter the highest possible line number

Renumbering a Textfile

Finally, the resumbering itself is done by adding the sees value to

C64 PROGRAMMING

		, COLD STEE STEE		
		or some		BEEN MACHES.

C64 PROGRAMMIN

Flash Load

Create your own flashing bands whilst loading and saving your creations



Get the most from your disk drive with this enhanced DOS utility By M. Holmes

We call UM, Although understands and very propine, in is not of the control of the control of the control of the control of the first control of the control of the control of the control of the the control of the control of the control of the control of the the control of the control of the control of the control of the theory on parameter to ferrors to doubt quick time. The control there was parameter to ferrors to doubt quick time. The control of the decident of the control of the control of the control of the lands on this kind of application, see latting we can't compressed the control of the decident of the control of the decident of the control of the decident of the control of the

In solds to council the Consendent's respectives, or speed things up a occurred just the rounce to machine could. This sist researchy all that dif-(is depends on what you must; not all that can be done in machine or is worth design, and we self that in worth doing can be dough, because it are a whole least of whather and easily not restrees in both the fluid: REPAML ROOM available tool design perform the second y function. You have been supported by the council of the province of the least of the council or the council of the council of the Ball Alexander.

grey we what, you need, capitally in the arms of disk caseagement, yes in which are contributed or alternating the calculation (ROMs, and some of shicks are other packages. But, if you want to keep your COA in standard in possible, if whatever it is you want to do, you need it, and remains undertenine as written of the your want to do, you need it, and remains undertenine as writtening tenterchief, but then what you need it, and remains undertenine as This is ROMAN (Disk Operating System Managers, ranginally years to provide the COA with the ability to recognize that find there could be now after it so much that I cannot use my fair analysis on other your own after its o much that I cannot use my fair analysis on other your

BOYOR CP4 sevenderful makes Wileign DOYARA was seemed these represed that I speru the cut miss and offern adding some even set that I was serv would prove very useful while offining fluid text and density as preparate. Over, as I've how eaply the most get on the sensity nor IRA but I defin! was why no Commandors couldn't do the same sens of it but I defin! was why no Commandors couldn't do the same sens of it but I defin! was why no Commandors couldn't do the same sens of it while default category has been a department of the same sensity while default category has been sent group could be make naking Basis's where he even set quoteer. These brinder a came Non-Nakalable Eurorup (INER), progressed function level per implement Non-Nakalable and the same progression of function levels in implement the same progression of the same sensity of the same that the same sensity of the same sensity of the same same sensity of the same sensity of the same same sensity of the same sensity of the same same sensity of the same sensity of the same same sensity of the same same sen

C64 PROGRAM

Installing Dosman

Type in and save the program DOSLOAD. Once our, this will creat MIC program – DOSMAN. To activate DOSMAN, type \$Y85224 (saiding.

The program and its satellites six at \$1781 (\$CAAS) convends, leads

Commands Availab

SVS 52224 - This enables/re-enables DOSMAN, the contem NMI and the function keys.

© Y - This disables DGSMAN, but leaves the centers NMI and the function keys intact.
IRUN.STOPERISTORE! - This disables the curron NMI and the function

eys, our reaves 2000, Moth initials. A BKK instruction executed in ma ole his the same effect.

"Having got it in and enabled, you have access to the following:

e six primary DOS comma

of mode only, ignored in program mode:

(F(on its own) - get and print disk drive arror massage

© command > Surd command, to current this drive if it insteads of the free specialty commands below. You do not retire it in quotes. The command in any of the conventional DOS commands such as of I to installate, of V to validate; CNAME2-NAME1 to copy file, etc.

The three reconstant DOS commands.

© < number > Change the current device to number > See all further operations. e.g., © \$ seeds in all further DOS activities to be carried out

operations. e.g., © \$ meets in all further DOS activities to be carried on with device 9. © B changes the current device back to 8. © \$ < optional meek.) - Oet and display disk directory from the current device

int files of type PRO.

8X - Disables DOSMAN. DOS commands will no longer be recognise but will revolute XXYTAY PROVID.

but will produce SNFTAX ERROR.

/-LOAD
/-Memans--Load Shaame from current drains into Rosis research

repairs program arrang cuating a any. It there was a problem facing a load there with to LOAD EARON/draphage, V you must then use 9 to historraps the drive so faid out what week weep, which will return a.g. FILE NO FOUND or DNPE MOT READY. If the bodd was successful their will no memory after LOADNNG and before READY. 00 100 PM 100 LOAD

TO 100

18 200 2574103 () 179, 159, 150, 150 200, 179, 150, 250, 250, 250 200, 200, 150, 250, 250, 250, 250 21 200 250, 250, 250, 250, 250, 250, 250 21 200, 2700 200, 2000 20

Forty Nine

1- APPEND

1 < Benzee > - Since the KERNAL lead coatine is canable of LOADing

< filename > - Says program in memory as Greater to current drive

Ignered in program mode after RUN (normal ASCII value intact for probut, not after [STOP] and CONT have been used, nor if GOTO used is

FI prints LIST[RETURN] LIST all of program in momory from a

F2 prints LIST[SPC]
Prints LIST and waits for line number(s) to be add

RUN program in memory from start.

ints GOTO(SPC) rists GOTO and waits for line number to be added

PS prims CONT [RETURN]
Since a single press of the [STOP] key causes the interpreter to be set of the program to direct mode while running, why not also have a si-key press to make it CONTinue where it left off?

Ran the OLD rowine.

A TABLE STATE OF THE WAY TO SEE A TABLE STATE OF THE STAT

TRACE ON is also acrive in direct mode, and any Basic commands to in closest mode will be preceded by a rubbish number, but this doesn't mill it doesn't prevent normal use.

FB Prints SYSSISSI[RETURN]
The line TRACE utility is switched off.

The Custom NM

On may have that the [RUIN STOPP[RESTORE]] large values a Noor-Mail tempor and produces in some nearly Basic. They results have to be those [STOP] alone week nearly Basic. They results have to be those [STOP] alone week nearly, the values the MPU has got lear in a mean offer results, or if a perspictual has have got them also hasping up the color results. The 'was reliable reviewing certain octs and certain got mean extention great made. The 'was reliabled reviewing certain octs and certain give more variety of the color includes a service variety of the color includes the color of the results of the color factor have been re-defined by one the text that was one it and if the color new when re-defined by

120, 600 (1.00 t), 120 (1.00 t

C64 PROGRAM

Fifty Two

DOSMAN Memory Map

C64 PROGRAM

		SCCIB	52251	BUFFER	DOSMAN input buffer.
80		50C13	52333	FLAG	Mode flag for LOAD/LOAD & RUN/VERIFY APPEND.
		SCC77	52343	DEVICE	Capy of carries device number.
	Entry for custom IRQ. Test if func- tion key down, and process as necessary. If not service IRQ as normal.	SCC19	52345	Temporary sharage of disk director suctor count.	
	Copy string pointed to by x, y into keyboard buffer until closing W. "SYSSISSIFRETURNITO:	SCC78	52347	BASTAB	"LIST[RETURN]"E, "LIST" 0, "RUNRETURN] 0; "GOTO" 0, "CONT[RETURN] 0;
	"SYSSISSIFRETURNING.				"SYSSENTRETURNITO.
	SYS here for [TRACE ON].	SCCAS	52,992	GETVAL	Get numeric value from RASIC line into \$14 - \$15 box.
	SYS here for [TRACE OFF].	SCCRO	53,000	FLIST	Table of BASTAB address pointers.
	TIRACE ONTO	SCCCB	53427	NWIWED	"INTERRUPTION.
	TRACE OFFITE	SCCDE	53446	CODE	Starage of code to wedge CHRGET.
	Print using pointed to by x, y till closing V.	SCCEI	53449	INSTAL	Wedge CHRGET and Install DOSMAN.
	Display RASIC line No. while "TRACE ONJ".	SCCFI	52467	ENTRY	CHRGET jumps here to test for DOS commands.
	Install refresh/perform custom NML	SCD35	52533	СОММ	Process recognised primary DOS
	SCECT 52163 IRQUES	SCDID	52541	GETERR	Get and display current device error
	Instal/refresh custom IRQ for function keys.	SCD68	53584	SENDEM	Send command string in buffer to current device.
	5Y5 here for "OLD" routing.	SCD4E SCDAS	52590 52545	READ GETCHR	Input BASIC line into buffer. Jant like CHRGET, but doesn't
	SYS here for install DOSMAN, custom NMI and function keys.	SCDRA	53666	CHADEU	Obange carrent device number in moments.
	Primary DOS command jump	SCDCA	52682	RESTOR	Restore CHRGET to normal, dis- sNes DOSMAN.
	table.	SCDDC	52200	GETDIR	Get and display disk directory from surrent drops.
	List of primary DGS commands.	SCERI	52833	LOADL	Load BASIC prog.
		SCERR	53841	LOADR	Load and run BASIC prog.
			53849	LOADU	Verify BASIC prog.
		SCEAG	52896	LOAD/ LOAD & RUN/ VERIFY/ APPEND	
		SCECA SCEFC	52938	handling. APPEND SAVE	Append BASIC prog. to memory. Sate BASIC prog. is memory to current device.

Fifty Three

RESET CIRCUIT

Make your own res circuit easily and cheaply

One of the most infiniting design faults of the C64 is that Casesoole One of the most better if you do not own a satable carridge, you are constantly at the enery of power perge and power lagues. But many times have you find that all important programs (the our that you have the befored swings off!) How are one of these unfortunates, then this sit is less you. I will show you have, with a lift effort, you can build your own. The coast is ablated by prossing the relates let be or goodnings to second

The theory

The moment that the Rostoce key is pressed, capacities CR1 is charged by way of resistor RR3. The voltage on the trigger-input 8 of U20 will fail. Whe that voltage resultes the trigger voltage of 1,5%; the timer U20 alone a rea-

pale.

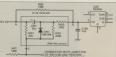
If the Restore key is released before U20 triggers, coparitive CR1 will be decharged rapidly in approximately 6.5 seconds. Therefore, it is impossible to reset the C64 by repeatedly pressing the Restore key; the Run (Soop-Restate) Nam Mark-Mole Internation of the Run (Soop-Restate).

nstallation

The circuit is reliable and is easy to belied on a square-pad board. It is also easy to install itses the Col.

Remove resistor R50 (1Mhz) and connect wise A to the left solderpoint wheth come (rev. Why B is connected with the right solderpoint, (see Gingsen). Point C mint be connected with the right sold or finister R41. Now point

You should now have a functional and reliable reset source.



WHIPCRACKAWAY

Commodore Crusader Kevin Crosby dons his hat and bullwhip to report on the latest installment in the Indiana Jones saga Power! Ever just come back from my local (cinema, not pub – this timely and what a fint!

I see, all course, referring to the third and reportedly the final film is the Railers series – Indiana Joses and the Last Crausde.

Once again Hardson Food Pays the slightly anothodes: Archaeologies

on the Reiders series - Indiana Acess and the Last Crandis.

Once again Harstain Food plays the alighty unescholars. Archaeolo.

Deer gain Harstain Food plays the alighty unescholars. Archaeolo.

Deer Committee Commi

Crandel fat in around the proteon two films Raiders of the Look and Indiana Second the Temple of Deers. The fat my period is set in Newton to Second the S

for action. Life as an archaeologist is not all digging.

notiboul on the whereabouts of the Buly Gral – the famed the buldes a print were better than a year's subscription to Ye—the gift of extract ER.

At this quant was the Bift's obscuice body is understanded to vely bis Pather has next it to him. Things soon fall intelligence of the property of the property of the Pather has been as which the Danswar (pit and Dans

- mit get or sterma too.

As this open was his lift or why his Pather has seen of the control of

as help in Golding like by tracing the costs mapped seri in the censive bear me, of corner, now valid pieces of discretization missing which is and first of the ferrir bear as offices of final glash bearing specific. It was the contraction of the contraction of the contraction of the contraction of the y Docksked Elifact in the tense of Votes where they meet may sent IR to a text to the contraction of the pieces bear they meet may sent in the sent to the contraction of the contractio

Above: Things hat up for and Jones.

environment of the control of Austra is more dated IDAd and to their her in the more dated IDAd and to their her in the interest in the control of the contr

audience always seem to be able to go fugghh yukky-poo' whilst still keeping a smile on their faces."

Exceler professions is two Deshino Bildin and John Kity. Deshi belt increased inch ancient from the Office. Not no use then beet have been from the Office and the Office and the Office and Office an



AMERICAN INDOOR SOCCER In maley played SOCCER In the sound of the soun

rumbe built may allowing

would being lot better than



loggaph the only was

can administ at will to keep

the assets first and ferrous. However, saliciting stable in the cell-pile frequent in this game. You can be set as control for the set as control for the set as control for the set as control feel, positioner, control feel, positioner, control feel, positioner, control feel, positioner, control feel, position control frequently assets of the set of t

INDIANA

THE LAST

The man in the hat is back again and this time he's brought his dad! That's how they trailed the latest adventure of Indiana Jones. Now it's a compute game.

Lucasfilm (US Gold) - £24.99







grant universe any read of philosome, region to climb as any bad gogs amende with any bad gogs amende with any bad gogs amende with a survivery you'll need norches to you can see where you'be going and whitps 50 beatle passe way through 50 the exit. Then the chase conditions on the passe of a climb and packed with really wild naimanh. This is where holy learns to man a whije for the first climb. It is now left? and I fall in the first climb.

It is now 1978 and Indiann Janon in recing the Nazis is find the Hely Orad. His cody class is his father's Geal diary that leads than both underground inso the rat infested crypt of a Venician charith where they hope to find the grave of a Geal knight. After storming a smile to receive the diagram.

from Lucastite launches a platfore strade game for the with other versions to Fifty Eight

form style ture produced by Lucardian, opens he has just ensest the Amiga, The accord game is based mine compiles in w to to follow on five sequences from the thickes are straking the

GAMES UPDATE I ONES AND CRUSADE















Lucerfilm is the software YOUR COMMODORE



of my reviews will









HE SURES SCHOOL

Screen 7 - £9.99



LIFE AND DE

Has the NHS fallen so low that they'd let a complete lunatic like Duncan Evans into the wards? Oh no, they

Mindscape - £29.95 Disc

There's no need to the above the above to th

Sodivante Toolworks. Denkshölle in his gene yea an that road oped arguon. Denkshölle in his gene yea an that road oped arguon, who are there to suffer. And suffer they do, as set houses treating, housing the warfs training, housing the warfs and the suffer of the suff

in digital pi, of which forment the convolving a manifold too.

They write of in the gament First counties the Theory with the property of the



ATH





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Make new friends tradi

Club's definitive multi-user space game

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GAMES UPDATE I



fire. Once the immediate area is cleared you can acad

will decide the pattorns

Iranian Embassy in 1980 we have waited for a game that captured the

will take were reactive.

games £9.95





v Electric Dreams -





US Gold - F9 99

As part of the Dungeons and Dragon deal. US Gold has created a game to bring role playing to the masses

HEROES

FEATURE III

Tour Hetherington

And so the footy season starts ac To coincide with this r occasion, Challe us a dose of soco test even Kenny Dalqlish I

nour train, and other dash division of 30 mans. You way is Troble Chal shores performed by be con play on any of three difficulty levels, and years in Player have skill feeds any of the Two divisions. Also, all of the bigues have now fitness and represent named players which you news a secret. The reaches can approach with the hory Director II. The letter area are played with the clock of murchasino, but alread by is a band not by follow and ticking great, and a table

the only was to do so a sold controlly down her man be to better it in the sact rest the lost was in rest err's pomenties, the allowed of shore or

In west Also new to the proof is the fact you can make two constitutions for ing a match, and eather your COMPUTER SERVING sacre, but with the weathirty Penalty shott-our of faring more human not often included in such STREET, GATHER, BOT MY THE Jepr in Litigat Cap compobouts 4 division of 2

Charles Software is a labor Cor E 4 2 Suftware, a comparty with a very high peak Champions is its first retel done before the transfer

Processes derive the game is not overly elaborate this seel of party that is common. The gaste is enor-





MILLENNIUM

Flectric Dreams - £29.99

The predictions were right. The astroid did collide with the Earth killing all life on the planet. As commande of the moonbase only you can save

HOLOSOBE STATE





Left Look must, while binds my a computer screen

MONRACE II in a fighters with read to the comparation of the comparati

of the roofs into space.
That when things even to be given by a property well, you receive a bronger from the roots of the roots and the roots of t

to publish that no concern and the control of the c

strategy of mauring the an obseraction of Tony Methodog





Ocean - £24.95

ROBOCOP

Part film character, part arcade game, all cop. It's the man in a can, and he's gunning for you. If you've been naughty that is:

The STREET, STREET, STREET,

INFO

Grabies: 80% Sonies: 20% Lastibility: \$190

As the sun sets Gordon Hamlett gets! funky with his remote-controlled robot.

Magic Bytes -£9,99 Tape, £14.99 Disk.



TOTAL PITON



GAMES UPDATE THE STORY

Elite - £19.99 Only a compilation, or a potted his-

SO FAR

tory of Elite Systems work on the niga? Duncan Evans gives you the







COMMODORE



door FREE !* That's right, if you take out a year's subscription to Your

1st CD

Can the ageing Commodore 64 keep up with the brash young

with the brash young upstarts of the 16-bit world. Maybe it can, with this CD interface from Rainbow Arts.

EDITION

There has been a lot of speculation about what CD-ROM is goin

for fer the computer and outstrainment industry. Gigabous of a

fills like selection sequences sourced on CD, with shering menical to
accompany the action.

Dren now we are easily the emergence of the new technology, will

Deen more we are useful the emergence of the new tachaology, as Mismonth releasing Deleadur of the Crown on CD for connecting up to Rands the PC Expire, with as CD ashiman, and who known that is an Well like you I can only gone, but I'd never have gassed what Rai Well and the CD as a support of the last the connection of the connectio

as reliased the 1st CD-Edition. This package consists an interface whiting total to casonic poet, a CD and a four-rection manual. The interface which interestes the radio capture of a CD player into old format of the casonic poet is result and fingle looking. It inch except the control of the casonic poet is result and fingle looking. It inch except the proposition that a assessed verification would recall

owed and gives the impression that a unessent's experiences would result being suspeed in helf.

The only carsh with this packupe is the CD player. Unless the genry or CD, for this is a compliation, were of such beillamon that it was we yiely out £150 or so for the CD player, or you already had one, then It notices the of much are.

sail going to be of much not.

Senting everything up is a miner basale, simply because of the nonbure all the equipment is slowe precisinty. It may in the manual that one me a pertable CD and just as easily, and as this is far casier to see I gave that up up.

yanhe endy to roll. Zaoy oliosigh, you then just type LIADA said set the U. Head of the second of the post of the three three the second of the three three

when you reads how this data is nong hoods, but is comparable with odey less based root to the CM data data in the side spit Abest 11 mixed. How much room on the CD does all this take spit Abest 11 mixed. How much room on the CD does all this take spit Abest 11 mixed does, the programs after our In visu and Eliu pit he not of this very carp does, the programs after our In visu and Eliu pit he not of this very carp does, the programs after our In visu and the CD data data does not be the comparable of the mixed tracks to the (Abed) to letter to strongly nor ampfaller. Due mixed mixed are also (Abed) to letter to strongly nor ampfaller. Due mixed mixed are also (Abed) to letter to strongly nor ampfaller. Due to mixed mixed and also (Abed) to letter to strongly nor ampfaller. Due to mixed mixed and also (Abed) to letter to strongly nor ampfaller. Due to

special, and not worth beying the CD-Taldana Soc.

The natural games, almost no overtight in this stange project are not you state of the art games. Some of them are older than my mothers, but for the record, this is what you gar. Enactive Madaginet, Magic righthall, Landerboand Massion Bis-star, Impossible Masson, Dyopcoes, Ledermener, Sedomon's Key Janks, M. S.U.F., and Fe all.

standards of the intrinse are concurred.

If you don't have a CD Florer then forget it. If you already do, and you can log it close enough it you can log it close enough it your computer them all you have to worry alone in whether you really want the boards of theiring ten very still games and som forgettable stories on a compact disc. This last the to-shooling or decoration for the control of the control of





"Handy Little Booklet" is the essential reference book for everyone buying a new car.

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Editor's Note

Apologies must go to Mr. M. Carroll for an error published in the August issue of Your Commodore. On page 54, we accredited Mr. Carroll's program, Disk Scrambler to S.T. Burke. Apologies all round for this error.

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